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# **TURCO® 4215**

## **NON-SILICATED ALKALINE SPRAY WASHING AND HOT TANK COMPOUND FOR USE ON ALUMINUM**

### **WHY NON-SILICATED?**

Aluminum is a very reactive metal. For a cleaner to be strong enough to properly clean aluminum it is necessary that the compound be inhibited against attack on the base metal. For many years, chemical compounders have been adding silicates to aluminum cleaners, to inhibit this attack on aluminum.

Silicate additions have several disadvantages:

1. They tend to "bake on" the aluminum surface at the high temperatures at which cleaning compounds must, of necessity, be used. This causes a frosty or powdery residue, which interferes with inspecting, spot welding or conversion coating. It also gives the aluminum an unclean appearance.
2. Since these silicate deposits are insoluble, they are very difficult to rinse off the clean surface.
3. Silicates tend to form scale on the sides of cleaning tanks. This scale will also plug spray washers, nozzles and jets. This means increased maintenance and more frequent "down time."

### **A NEW SUBSTITUTE FOR SILICATES**

Turco 4215 compound now offers a unique and effective substitute for silicates. This material which has been built right into the Turco 4215 compound, inhibits the compound from attacking aluminum just as silicates do. But, it also **completely eliminates the disadvantages of silicates.**



In other words, Turco 4215 rinses freely and easily. It leaves no residue to interfere with inspecting, spot welding or conversion coating. Parts cleaned with Turco 4215 emerge from the rinse **shining and clean.**

### FOR SPRAY WASHING OR DIP

Although originally designed for spray washing of aluminum, Turco 4215 can also be used for cleaning by immersion, if air agitation is used.

### RECOMMENDED USES

Turco 4215 can be effectively used in any process requiring clean aluminum surfaces. It is particularly effective when used for removing oil, dust, dirt, protective oils, and grease from aluminum during shop processing or prior to spot welding or conversion coating. Use of Turco 4215 additive (see below) further extends its long tank life and makes it an excellent material for removing identification inks.

### HOW TO USE TURCO 4215

Turco 4215 is used at concentrations of 1-2 ounces per gallon of water for spray washing,

6 ounces per gallon of water for immersion. Whenever possible Turco 4215 should be charged into **cold** water, as cold water assures more complete solubility of the wetting agents.

Recommended temperature 150°-170°F. for either method. Air agitation must be used when dipping. A thorough cool water rinse should follow immediately after cleaning.

When immersing, use Turco 4215 additive at 1 pint to 1 quart per 100 gallons of solution. Although this additive is not normally required for spray washing, its use will speed cleaning action and appreciably increase identification ink-removing qualities of the cleaning solution.

The information and recommendations of Turco concerning this product are based upon our laboratory tests and field use experience, and to the best of our knowledge and belief are true and accurate. Since conditions of actual use are beyond our control, any recommendations or suggestions are made without warranty, express or implied.